

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Unit 2 Study Guide

Patterns and Functions
<b>Definitions and give examples.</b>
Function:
Independent Variable:
Dependent Variable:
Domain:
Range:
Function Rule:
Steps to write a Function Rule:

Distance Formula	
<b>Formula:</b>	
a)	b)
c)	d)

**Midpoint Formula:**

**Example:**

**Pythagoras and the Theorem**

**Formula:**

Describe the Pythagorean theorem in complete sentences.

What did Pythagoras do with the tiles in the video?

What were some key elements of Pythagoras' life?

Determining if three sides create a right triangle:

Find the missing side:

**Pythagorean Theorem Word Problems**

*Step 1:*

*Step 2:*

*Step 3:*

*Step 4:*

# Algebra 1A

## Study Tips Checklist: Unit Two

\_\_\_ **Required:** Complete **two sections** of practice problems from the book

\_\_\_ **Required:** Complete the **Practice Test** in its entirety. This is very similar to the actual test.

\_\_\_ Re-read the **Study Guide** with the intention of memorizing the steps, definitions, equations and formulas.

\_\_\_ Attend **tutorial**. You must sign-up in advance.

\_\_\_ Email your teacher with any questions, to check your answers, or to request more practice!

\_\_\_ REDO problems from the Practice Test you did not answer correctly the first time.

\_\_\_ REDO problems from the unit Quizzes.

**Patterns and Functions Quiz:**\_\_\_\_\_

**Square Roots, Distance Quiz:**\_\_\_\_\_

**Pythagorean Theorem Quiz:**\_\_\_\_\_

**Complete more problems with concepts you need to practice:**

	<b>Lesson and Quick Check Problems</b>	<b>Questions</b>
<b>Patterns and Functions</b>	Pages 27 - 29  Page 27 QC #1 Page 28 QC #2 (a -c) Page 28 QC #3 Page 29 QC #4  <i>Answers: Page 843</i>	
<b>Square Roots</b>	Pages 176 – 178  Page 176 QC #1 (a – d) Page 177 QC #2 (a – d) Page 177 QC #3 Page 177 QC #4 Page 178 QC #5 <i>Answers: Page 846</i>	

<b>Coordinate Plane Review</b>	<p>Pages 24- 25</p> <p>Exercises 1 – 12</p> <p><i>Answers not in back of book. Check with your teacher</i></p>	
<b>Distance Formula</b>	<p>Page 186</p> <p>Description above #50</p> <p>Exercises 50 – 55</p> <p><i>Answers not in back of book. Check with your teacher</i></p>	
<b>Pythagorean Theorem</b>	<p>Pages 181 – 184</p> <p>Page 182 QC #1</p> <p>Page 182 QC #2</p> <p>Page 183 QC #3</p> <p>Page 184 QC #4</p> <p><i>Answers: Page 846</i></p>	